

ABSTRACT OF THE DISCLOSURE

When a signal level of a motor brush switching signal is low and thus dropouts or omission of the pulse signals converted by a waveform shaping part take place, so

5 that an interval between a pulse signal to be currently counted and an immediately preceding pulse signal thereof becomes longer than a predetermined average interval, a pulse signal counter makes a correction of the number of counts by adding one pulse to the pulse to be counted. Therefore, even if the signal level of the motor brush switching signals generated from a vertical motion motor M2 is low for some reasons,

10 accurate control can be exercised over the number of rotations of the vertical motion motor M2.